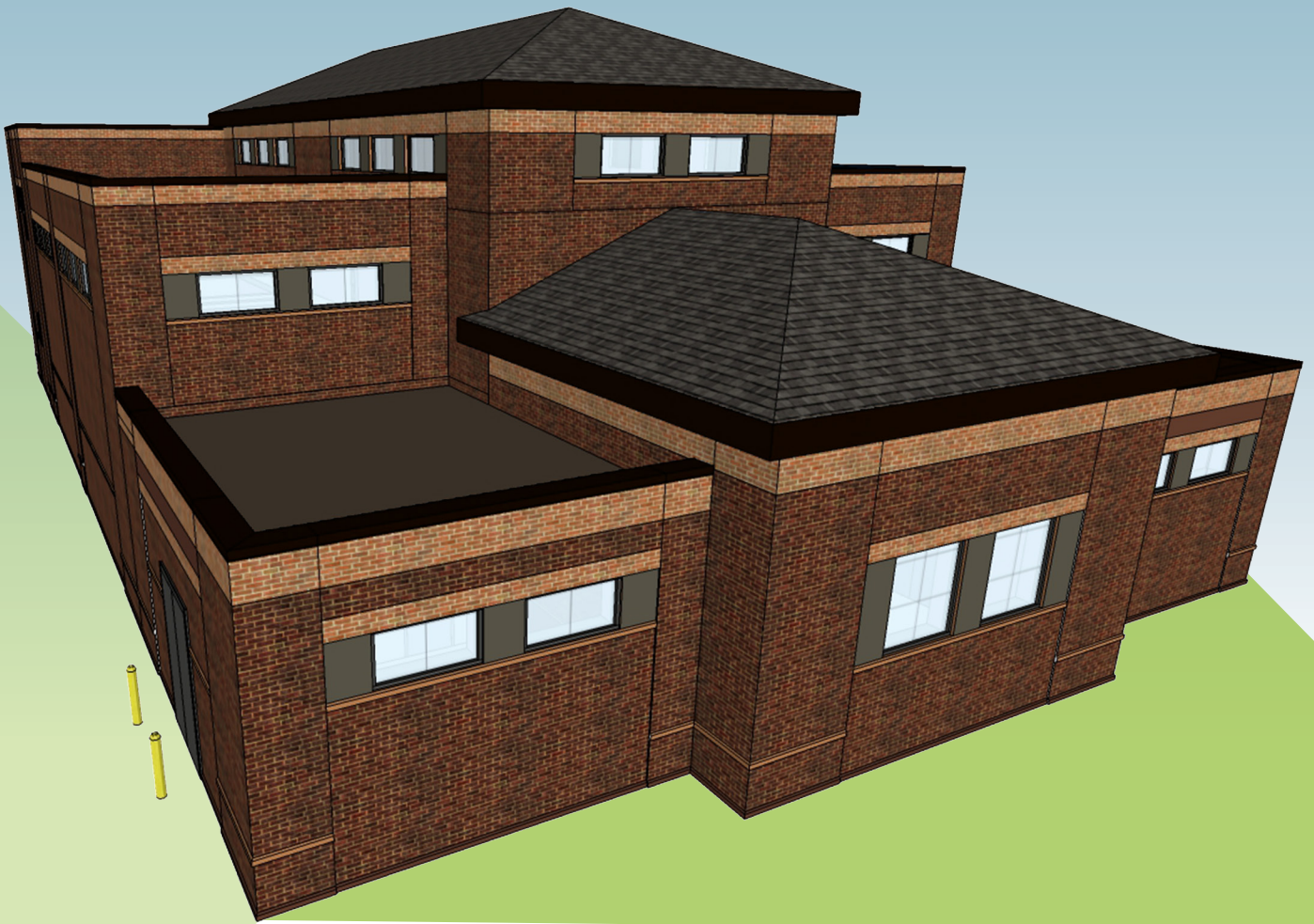


SHOREVIEW WATER TREATMENT PLANT

The City of Shoreview and Advanced Engineering and Environmental Services (AE2S) have completed the design and construction of a new 8 million gallon per day (MGD) water treatment plant (WTP). This new WTP will provide treatment capacity for the needs of our growing community while ensuring our long term ability to provide an abundant supply of safe, high quality water to our residents.



2. Conventional Filtration

The facility is equipped with six (6) conventional filters which remove iron and manganese from the water after aeration.

5. Storage

1 Million Gallons of below grade finished water storage.

6. High Service Pumping

Pumping into the distribution system.

7. Chemical Injection

Finished water chlorine and fluoride injection.

4. Chlorine Gas

Provides primary disinfection, oxidation of the influent iron and Manganese, and regeneration of the greensand media.

8. Generation

On site 1000kW backup generation.

1. Forced Draft Aeration

The facility is equipped with two (2) forced draft aerators. These aerators are designed to provide preliminary oxidation to the iron and release any dissolved gases present in the water. These aerators will also help to limit the need for chlorine use in the drinking water.

3. Backwash Recycle

Backwash water from the filters is sent to one of the two (2) 215,000 gallon reclaim basins where the iron and manganese that is removed from the water is settled out. The clarified water is then pumped to the beginning of the WTP where it is reused. This process allows for very little waste in the treatment process.

